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A design for a Young Men's
Christian association building

Architecture

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A DESIGN FOR A YOUNG MEN'S CHRISTIAN
ASSOCIATION BUILDING

BY

ARTHUR EUGENE BRAMHALL

THESIS

FOR THE

DEGREE OF BACHELOR OF SCIENCE

IN

ARCHITECTURE

COLLEGE OF ENGINEERING

UNIVERSITY OF ILLINOIS

1910

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ASSOCIATION BUILDING

ARTHUR EUGENE BRAMHALL

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ARCHITECTURE

COURTESY OF THE UNIVERSITY

UNIVERSITY OF ILLINOIS

1910

18 0'10" 125011 Craig.

UNIVERSITY OF ILLINOIS

May 31

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THIS IS TO CERTIFY THAT THE THESIS PREPARED UNDER MY SUPERVISION BY

ARTHUR EUGENE BRAMHALL.

ENTITLED A DESIGN FOR A YOUNG MEN'S CHRISTIAN

ASSOCIATION BUILDING.

IS APPROVED BY ME AS FULFILLING THIS PART OF THE REQUIREMENTS FOR THE

DEGREE OF BACHELOR OF SCIENCE IN

ARCHITECTURE.

John Watrous Case.

Instructor in Charge

APPROVED:

N. Chiffon Richer

HEAD OF DEPARTMENT OF

Architecture

168692

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A YOUNG MEN'S CHRISTIAN ASSOCIATION BUILDING.

An Association without an adequate building is handicapped from the start. The idea of the value of a Young Men's Christian Association and the character and benefits of its work are now so well recognized that it is possible to raise money for association buildings before an organization is made. The Young Men's Christian Association is no longer on trial for its life. The number of buildings added year by year shows the thorough appreciation of their needs and use.

The Association stands for Christian manhood, which involves in well balanced proportions of the physical, intellectual, religious and social life of the individual. An Association building intended as an institutional center and means for the culture of such man-hood must take provision for activities in all these lines. Therefore the design and construction of a proper Association building constitutes an small contribution to the promotion of its interests and purposes.

While an Association building should be built primarily for the uses of the Association, it is usually possible to arrange for the rental of certain store room or dormitory space which shall provide a means of income large enough to be a strong safety factor in the financial administration of the current work.

Lodging rooms for young men not only provides the surest source of revenue so far discovered, but directly forwards the

work of the Association in the community by providing for young men that which is most needed,-- an attractive home life.

Statistics show that the lodging room feature in the modern Association building has met with great success and tends to solve the problem of self support.

Future Growth.

Before planning an Association building the architect, (or committee) should make a thorough study of the probable growth of the city, of the Association membership, and of each department of Association activity. This is very important in helping to adopt the building plans to future conditions. Months of careful study will not be wasted, for the Association building presents complicated problems which are new to most architects.

Building Materials.

A fire proof building is always desirable.

Use the very best material, not necessarily in elegance but in durability; also the best workmanship in plumbing, lighting, ventilating, drainage, and heating for it gives better service and greatly diminishes repair bills.

Special Requirements.

There will be, first of all, a plain but pleasing exterior expressive of good taste and devoid of extravagance, a broad and inviting entrance, including a vestibule, a central rotunda or reception hall, and central offices, so located as to control entrance and exit to and from every part of the building.



The business office should be separated only by a counter from the public lobby or rotunda. A safety vault should be in or near the business office, also a telephone extension to every department of the building is desirable.

The secretary should have a private office.

The board of directors may or may not have a special room in which to hold meetings.

A small auditorium or assembly room is a necessary feature, but the great auditorium of a few years ago is not a thing of the past. The space it occupied is now used to a greater advantage, for the large auditorium never proved to be a source of revenue. The assembly room may also be used for banquets, in which case a small serving room should be attached with a dumb waiter to the kitchen below. A mezzanine story may be employed to give the auditorium a greater height.

A very large reception room is one of the main features of the building. Alcoves and some smaller rooms may open off the reception room for social purposes. A large fire place in the reception room is very desirable.

Restaurants:- A large number of the Association buildings have restaurants but it is often found more profitable to substitute a lunch room or spa as it is sometimes called.

Kitchen:- A service entrance should be provided for the kitchen and the connection of the kitchen with the rest of the building should be such that kitchen odors will not pervade the building. This may be accomplished by placing the kitchen and dining rooms on the top floor or by the use of forced ventilation in the kitchen.

The coat room should be near the business office.

Game Room:- The proper space should be allowed for the various games. For billiards the proper use of the cue requires a space of four and one half feet between each table or any other object.

Toilets- All toilets must have outside windows, and if possible forced ventilation; also exposed plumbing. Vestibules to toilets are very desirable.

A bath and toilet room should be provided on each dormitory floor, and where shower baths are used the floor should be water proofed by the use of concrete, tile or some other equally good water-proofing material.

Dormitory. The small single rooms are generally in more demand than the double ones. There should be some double rooms, i.e. a single room for two people, and a few suites. A clothes closet is needed in each room.

Ample closet and storage space should be allowed for linen closets, trunk room and janitor's room.

It is well to have a special stair-way leading from the street to the dormitories, which can be shut off from the rest of the building at night. This stair way may also be used by the boy's department.

It is generally found desirable to have the janitor live in the building.

Roof Garden. Some Associations have made use of the roof garden which may be desirable for social and religious work during the summer months.

Religious Department!

The general headquarters consists of a room large enough to seat twenty five men. Here might be placed a carefully selected reference library of religious work and Bible study literature. If a director is employed, his office should be near this room.

Bible class rooms suitable for groups of ten to thirty men each might be arranged en suite with the "head quarters room." The number of such rooms will always depend on local need.

A lecture room seating from forty to one hundred men is used for institute work, lectures etc. This room should have a large blackboard. Blackboards can also be employed in some of the class rooms.

It is desirable that at least one room be available for the use of the different religious organizations of the city, namely, the Ministerial Associations, Layman's Federation etc.

Local conditions will govern largely the planning of the religious department.

Educational Department.

Most of the city Associations provide an educational department. These rooms should be located on one floor where possible. Some of these rooms can be used both by the educational department and religious department.

In the smaller Associations of three hundred to five hundred members, from five to ten rooms are all that are necessary but some of the larger Associations have from eighteen to

thirty five rooms.

The educational director should have a public office about fifteen by twenty which can be used for clerical helpers and probably for the sale of supplies. His private office need not be over twelve by fifteen feet. Both rooms should have outside light.

Rooms which should be provided in the educational department:-

1. Reference library.
2. Small lecture room.
3. Two to four rooms for clubs.
4. Two to Ten class rooms for commercial and language work.
5. Two to eight rooms for industrial and science work.
6. Laboratories and experiment rooms in chemistry, physics, electricity, engineering, trade and shop work.

Each class room should have from ten to twenty running feet of blackboard three and one half to four feet wide and three feet from the floor. The above rooms should be equally available for night and for day work. The lighting of all these rooms is exceedingly important. Deffused lighting by means of electric arc lights- one light for every two hundred square feet of floor space and not less than two in each room- seems to be the best for drawing and ordinary evening school work.

The Pratt Institute and the New York Mechanic's Institute have excellent systems of deffused lighting.

Physical Department.

The physical department generally plays a very important part in Association work.

A separate wing for the physical department is probably considered the best arrangement, but a vertical wall separating it from the rest of the building is all that is necessary. The approach should be only through the general reception room, and the members approach to the gymnasium only through the locker rooms.

The gymnasium should always be above ground and must never be immediately over or under an auditorium or any other room where quiet is essential. If it is necessary to place it in the upper part of a building, lockers rooms between it and the rooms below will help to keep noise from the latter.

Thirty square feet of floor space is needed by each man exercising. Sixty to ninety feet may be considered a large gymnasium and forty by fifty feet a small one.

The trusses or ceiling beams should clear the main floor twenty feet, this being the correct height for suspending apparatus. It is very desirable to do away with all posts in the gymnasium floor. The inside walls should be finished in smooth brick of light color instead of plaster or wood.

The windows should be of wire glass and metal frame and at least six feet above the floor.

The running track which should be at least ten feet above the main floor must have a dished floor and be covered with rubber or cork. Its width can range from six to ten feet. The railing should incline toward the center of the room and the

ends of the track should be semi-circular.

There should be three distinct locker rooms, one for young men, one for business men and one for boys; allowing about sixty lockers for each one hundred members of the Association. Lockers are made in the following sizes: viz., 12x12, 15x15, 15x18 inches, and in height vary from thirty six to seventy two inches. Each row should be separated by an aisle five feet wide. There should be narrow stationary benches in each aisle and a window at the end of the aisle.

The swimming pool ought to be immediately accessible from the different locker rooms and shower-baths. A pool may be as small as fifteen by thirty feet but twenty by sixty feet is considered a very good size because records made in pools shorter than sixty feet are not recognized by the A. A. U. The floor should slope from four to seven or eight feet depth of water. The lowest point should be two feet above the connecting sewer. The pool should be lined with tile or with enameled brick. The height of the room should be at least twelve feet to permit the use of a spring board. The walls and ceiling should be damp-proof. One method of water proofing cement walls is to use a solution of one pound of concentrated lye, five pounds of alum, and two gallons of water mixed with cement in the proportion of one pint of the solution to five pounds of cement. Apply with a brush and rub in well. (From Rickey's Hand Book.)

Spectators galleries for the gymnasium, pool and bowling alleys are very desirable.

Bowling Alleys. Most Associations provide for bowling alleys. Each alley requires five feet four inches by eighty two feet floor space. (Two alleys ten feet six inches by eighty two feet.) The bed of the alley being three feet six inches by sixty seven feet. The alleys should be so located that the noise will not disturb the other parts of the building.

The physical director's office should be on the same level as the gymnasium floor. He requires at least two rooms a main office twelve by fourteen feet and an examination room ten by twelve feet. A clothes closet and a private toilet room is very desirable.

A few smaller rooms in direct connection with the gymnasium may be used for special exercises such as, boxing, fencing and wrestling. Hand-ball courts, squash courts and other competition games should be provided.

Good ventilation and plenty of light is always an important consideration in gymnasium planning.

Boys Department.

The boys may use the same entrance as employed for the territories but it should also be possible to reach their rooms from the main entrance.

One large room or two or three rooms with large openings between can be used for a combination social, reception, game and reading room. One thousand square feet should be the minimum space allotted. A few educational class rooms, Bible study class rooms and in fact the general program as used for the men's department may be followed, including a special gymnasium etc. Of course only very large Associations are able to allow so

much space for the boys department. It more often happens that the men and boys use the same gymnasium but at different periods during the day.

General Remarks.

It is well to make the walls and foundations heavy enough to support additional stories when needed.

Outward appearances should never interfere with interior convenience and symmetry or general adaptation should never be sacrificed to one or two special features.

The key note of the planning of an Association building after fulfilling the requirements for the general work, is to reduce to a minimum the waste in corridors, stairways, water, artificial light, heating and administration.

Rooms for women help are always very desirable. A private toilet should always be in direct connection with their rooms. Some Associations have a Matrons suite.

THE Y. M. C. A. BUILDING.

Rooms desirable on the various floors.

Basement.

1. Bowling alleys (two to three)
2. Swimming pool (average size twenty by sixty feet)
3. Lockers. (Sixty lockers per one hundred members.)
 - a. Lockers for young men
 - b. Lockers for business men
 - c. Lockers for boys.
4. Shower baths. Showers should be in connection with the various locker rooms.
5. General Toilet. Located near the main stairs leading to the lobby.
6. Stairs.
 - a. To main lobby.
 - b. To gymnasium.
 - c. Service stairs.
 - d. Boys may have separate stairs.
7. Lunch room or Spa may be in basement.
 - a. Kitchen, dumb waiters etc.
8. Barber shop. (about two chairs) or may be in mezzanine.
9. Bicycle room.
10. General storage rooms,
11. Boiler room.
 - a. Coal space (forty or fifty tons) may be under side walk.

First Floor.

1. Entrance.
 - a. Main entrance.
 - b. Boys entrance which may be used by lodgers when rest of building is closed.
 - c. Service entrance.
 - d. Bowling alleys may have a private entrance.
2. Vestibules.
 - a. A vestibule is desirable for main entrance.
3. Public Lobby or Rotunda.
4. Rooms which should be in direct connection with public lobby.
 - a. General office.
 1. Vault
 2. Space for mail.
 3. House phones etc.
 - b. Secretary's private office.
 1. Toilet
 - c. Reception Room.
 1. A small writing room may be in connection with this room.
 2. A fire place is desirable.
 - d. Reading Room. (can be small, used only for news papers and magazines.
 - e. Main stairs leading to other floors.
 - f. Coat Room.

The above should be so arranged that the clerk in the general office has direct supervision.

5. Physical Directors Suite.

- a. Private office.
- b. Dressing room.
- c. Examination room.
- d. Toilet and bath.

The physical director's office should be in connection with the gymnasium.

6. Gymnasium (at least forty by sixty feet.)

- a. running track over.
- b. Stairs to track, sliding pole.
- c. Stairs to basement.

There should be a passage connecting gymnasium to the main lobby.

7. Special Exercise Rooms.

- a. Fencing, boxing, wrestling etc.
8. Hand Ball courts.
9. Stock room.

Second Floor.

1. Banquet and lecture room (About 3500 square feet.)

A small serving room with dumb waiter.

2. Religious Department.

- a. General room (seating twenty five.)
- b. Reference library.
- c. Directors room.

- d. Bible study class rooms.
- e. Small lecture room.
- f. Club room for religious organizations.

3. Boys Department.

- a. Reception Room.
- b. Game room.
- c. Class rooms.

Third Floor.

1. Educational Department.

- a. Directors public office.
- b. Private
- c. Reference library.
- d. Small lecture room.
- e. Two to four rooms for clubs.
- f. Two to ten rooms for commercial and language work.
- g. Two to eight rooms for industrial and science work.
- h. Laboratories and experiment rooms in chemistry, physics etc.

Fourth and Fifth Floors.

1. Rooms for lodgers.

- a. Single rooms.

- b. Double rooms.

- c. Suites.

2. Toilets, wash rooms, trunk rooms, linen closets.

janitors toilet can be grouped in the center with skylight over. (or light shaft.)

The New York building code requires one water closet for every fifteen persons living on a floor.

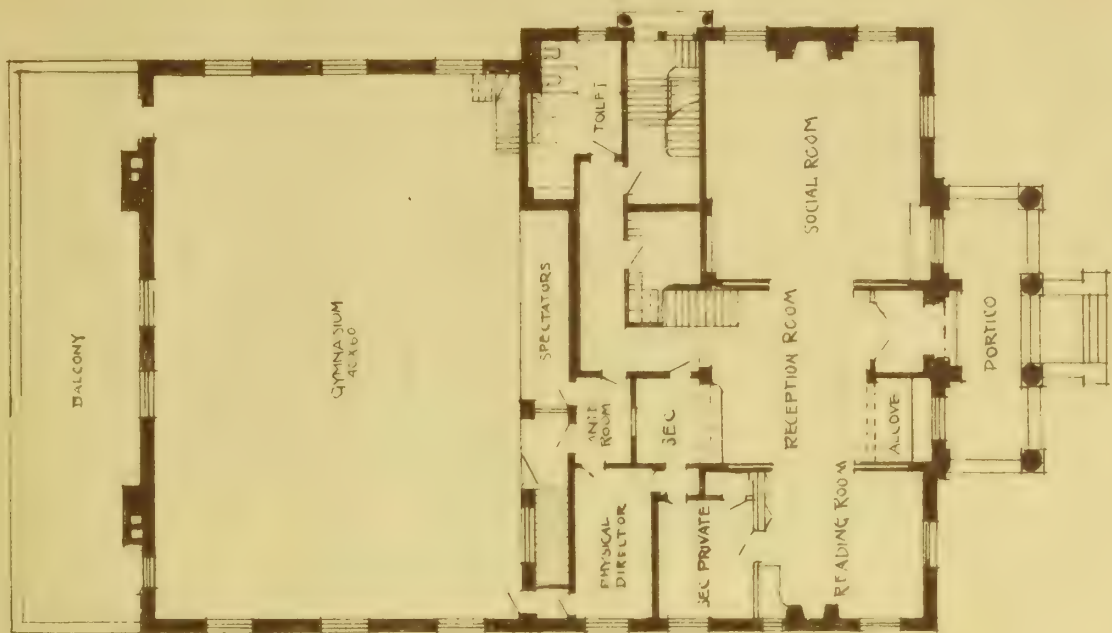
TABULATED DATA COMPARING Y.M.C.A. BUILDINGS

CITY	SEATTLE	TOPEKA	SOUTHBEND	JACKSON
STATE	WASHINGTON	KANSAS	INDIANA	MICHIGAN
POPULATION OF CITY	300,000	50,000	50,000	30,000
APPROX. COST OF BLDG	210,000	85,000	150,000	75,000
DATE OF ERECTION	1907	1905	1907	1906
NAME OF ROOMS	SIZES OF ROOMS			
Vestibule	14X25	20X25	9X14	12X15
Public Lobby	45X45	25X50	22X47	27X45
Reception Rm.	One Room	One Room	25X47	27X36
General Office	7X18	12X12	10X12	6X10
Sec'y Private "	10X18	25X30	9X12	13X21
Reading Room	36X40	12X25	25X47	26X26
Game Room		12X25	26X51	NONE
Lecture Room	49X64	Use Gym	Use Gym	Use Gym
Lunch Room	18X30 18X35	15X25	15X25 33X47	20X26
Religious Dir Rm.	8X10		12X16	NONE
Bible Class Rms.	Use Edu Rms		Use Edu. Rm.	Use Edu Rms
Educational Rms	10 Rooms Various Sizes	4 Rooms	14X16 - 7	Av 24X24 - 4
Physical Dir Office	12X13	12X15	9X12	12X14
Examination Rm.	8X8	9X15	6X12	One Room
Gymnasium	41X83 32X46	42X68	55X75	58X68
Special Exercise Rm.	NONE	NONE	25X55	NONE
Hand Ball Court	20X40	NONE	2 on Gym floor	2 on Gym floor
Swimming Pool	24X54	20X50	24X60	20X40
BUS, Men Locker Rm	20X30	10X25	20X40	20X32
Young " " "	34X34	30X50	33X40	30X42
Boys " " "	20X42	25X30	24X29	15X24
" Reception "	30X33		21X22	33X43
" Game "	15X20	12X20	26X50	One Rm
" Reading "	15X27	25X30	14X25	
Barber Shop	NONE	NONE	11X15	NONE
General Toilets	12X24	7 in number	10X25	10X17
Lodging Rooms	Av 10X16 - 166	52 Rooms	Av 10X16 - 76	Av 10X15 - 30

OF THE
UNIVERSITY OF TORONTO

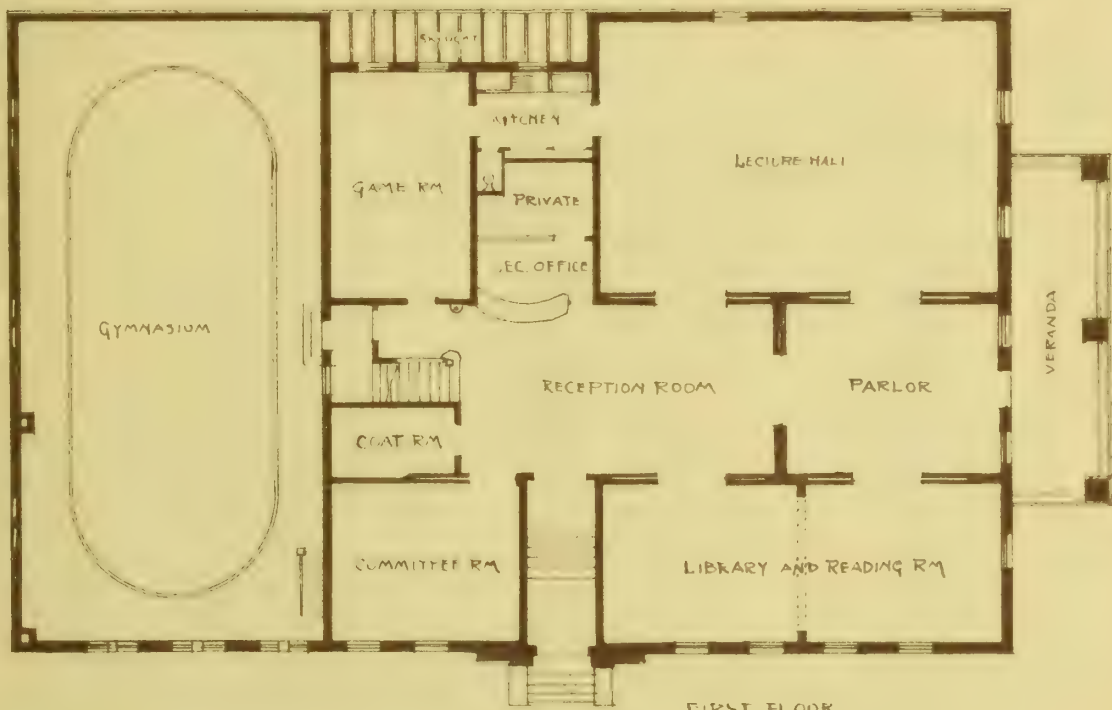
TABULATED DATA COMPARING YMCA BUILDINGS

CITY	DULUTH	TROY	INDIANAPOLIS	DETROIT
STATE	MINNESOTA	NEW YORK	INDIANA	MICHIGAN
POPULATION OF CITY	90,000	76,000	235,000	450,000
APPRX COST OF BUILDING	145,000	240,000	267,000	750,000
DATE OF ERECTION	1908	1896 & 1906	1907	1909
NAME OF ROOM	SIZES OF ROOMS			
Vestibule	8 X 16	12 X 20	NONE	15 X 15
Public Library	32 X 75	50 X 60	35 X 80	40 X 100
Reception Rm.	One Room	30 X 50	One Room	One Room
General Office	12 X 30	12 X 15	20 X 25	10 X 15
Secy Private "	20 X 30	14 X 14	15 X 20	30 X 30
Reading Room	20 X 40	30 X 40	20 X 40	30 X 30
Game Room	20 X 50	30 X 40	15 X 35 20 X 40	20 X 40 tables
Lecture Room	50 X 50	40 X 50		seats 450
Lunch Room	16 X 40	20 X 40	15 X 30 20 X 40	40 X 60 Annex
Religious Dir.	12 X 20	NONE	15 X 20	25 in all Rooms for Reference bldg
Bible Class Rms.	20 X 20-4 Rms	15 X 15	15 X 20-4 Rms	NONE
Educational Rms	15 X 20-15 "	Various sizes	14 X 18 11 "	10 X 25 3rd & 4th floors
Physical Dir. Office	12 X 12	10 X 12	12 X 20	8 X 10
Examination Rm	10 X 12	10 X 12	10 X 20	12 X 15
Gymnasium	50 X 100	50 X 70 50 X 50 Boys	65 X 90 35 X 60	60 X 100
Special Exercise Rm	22 X 40	NONE	NONE	Gum. Annex
Hand Ball Court	22 X 40	NONE	NONE	40 X 60
Swimming Pool	20 X 60	15 X 50	20 X 60	35 X 75
Bus Men Locker Rm	30 X 50	30 X 30	20 X 40	20 X 45
Young " " "	50 X 80	50 X 50	40 X 40	40 X 40
Boys " " "	Separate Building	25 X 50	20 X 30	3 Rooms
" Reception "		30 X 50	35 X 35	
" Game "		35 X 35	NONE	50 X 50
" Reading "		20 X 30	15 X 30	
Barber Shop	16 X 20	12 X 25	15 X 25	12 X 20
General Toilets	16 X 20-8	20 X 20	15 X 15	15 X 30
Lodging Rooms	Av. 12 X 20 107	8 X 10 10 X 12	8 X 14 69 Rm	97 Rms 4 Floors



FIRST FLOOR

Y.M.C.A. BUILDING OAK PARK, ILL.

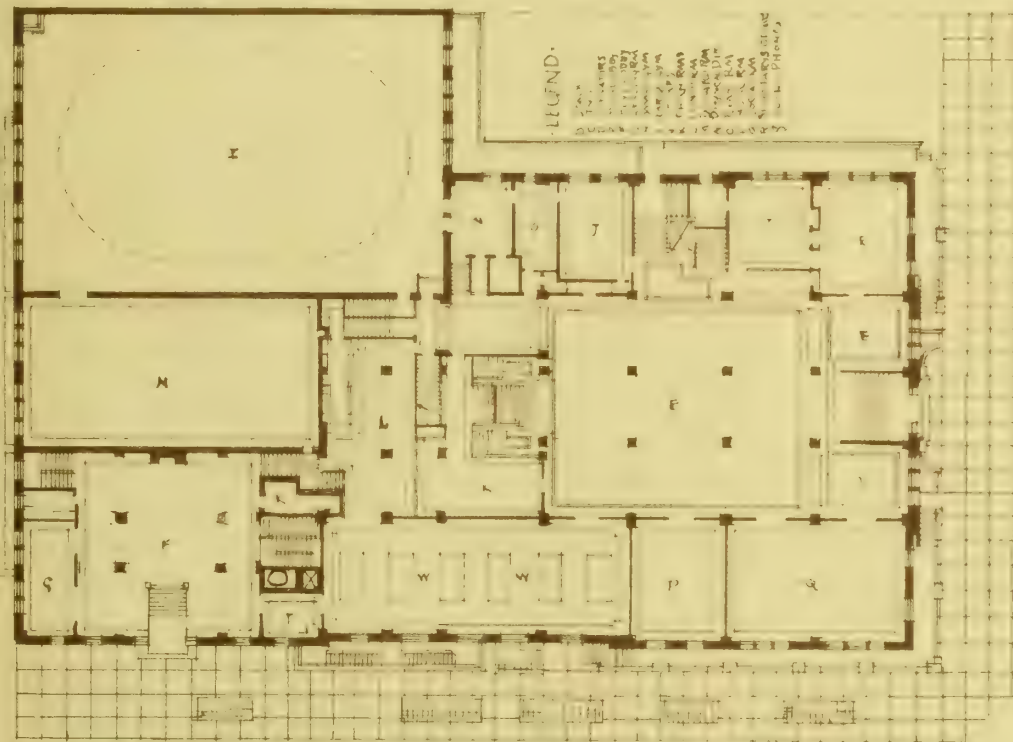
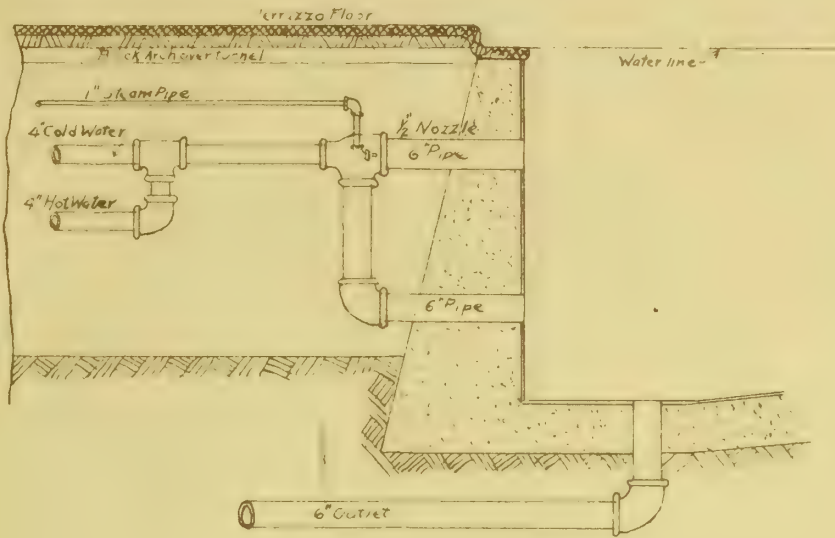


FIRST FLOOR

Y.M.C.A. BUILDING, KEWANEE, ILL.

Diagram showing the water and steam pipes for the plunge at the Omaha YMCA.

Designed By B.C. Wade



W. H. & PARKER
ARCHITECTS

FIRST FLOOR

YMCA BUILDING
INDIANAPOLIS
INDIANA

The following is taken from the American Competitions. It gives all the essential requirements for an Association building and would be of great value to any one making out a schedule for a competition.

The site purchased for the new building is located on Arch Street, near Fifteenth, and comprises the four properties numbered 1417, 1419, 1421 and 1423, extending through to the new line of Appletree Street, a rectangular measuring 92 feet and four inches frontage, by 167 feet 10-1/2 inches depth. In addition there is at the N. W. corner a connecting plot fronting 53 feet, 11 1/2 inches on Burns Street, 33 feet, 11 1/4 inches deep westwards therefrom and 114 feet, 1 3/4 inches long from north to south. So that it abuts against and overlaps the larger plot at its N. W. corner by 60 feet, 2 1/2 inches. The total area of the entire property is about 20,530 square feet. This property is substantially level. There is a sewer on Arch Street 9 1/2 feet below the curb level, 27 feet from the curb; the dip is westwards. A diagram of the site is annexed to these papers (will be sent shortly.)

The new building is required for the general purposes of a central building for the Young Men's Christian Association of Philadelphia, including the general administration offices of the board. These purposes comprise (a) the religious and social work, administrative offices, reception rooms, meeting rooms, and banquet and club-rooms; (b) the educational, including class rooms, workshops, Directors office, library and

reading room; (c) the physical, including gymnasium, for men and boys, bathing establishment, hand-ball courts, etc.; (d) the boys department with class rooms, gymnasium, etc.; (e) lodging room and a completely equipped restaurant. The specific requirements are enumerated in detail below.

In planning for the accommodation of the numerous parts of the complex establishment, there is abundant scope for variety and for the exercise of the designer's discretion, and the Committee desires to place as little restriction as possible upon this freedom. But there are certain requirements which they consider imperative, and to which the competitors will be absolutely held. There are others which seem to the architect may sacrifice for the sake of a great compensating advantage somewhere else. The competitors are asked to distinguish carefully between the essential and the non-essential in this schedule. The effort has been made throughout to render this distinction clear.

The first absolute essential of the problem is that the reception room with its attendant offices, social room, etc., shall be on the third floor and reached by not over eight or twelve steps from the sidewalk, directly from Arch Street. They should all be under complete supervision from the Secretary's (or Assistant Secretary's) public office.

This essential being observed, the scheme of the building will be largely controlled by the disposition allotted for the Physical Department. The Committee, after due consideration,

have decided against a gymnasium on the upper floor (such as may be seen in New York in the West Side and Twenty third Street branches). The lockers for the men and, if necessary, for the boys also, the swimming pool and the entire equipment of baths, etc., for men, must be placed in the basement, with the men's gymnasium and the boys' gymnasium (connected with each other), directly above them, or as nearly so as may be, on the main or first floor, and not less than 24 feet high in the clear, with the most important dependencies (in one or two stories, opening off from them. The bowling alleys may be either in the basement or on the floor above the gymnasium; this floor may, if desired, be treated as a mezzanine, and the barber shop and general toilet room may be placed here. The hand-ball courts, which must be not less than 18 feet high, may be placed anywhere where they will be directly accessible from the gymnasium. A part of this story above the gymnasium may be devoted to the more important rooms of the Boys' Department, so as to permit of direct access from the Boys' Reception Room by a flight of stairs to the Boys' Gymnasium and to the Boys' Locker Room, which may be either, (a) on the same floor with the Gymnasium, (b) on the same floor with the Boys' Reception Room; or (c) on the floor above this, the last being the least desirable of the three locations.

The first two floors of the remainder of the building will be devoted to the Reception Room, Social Room, Secretary's Public and Private Offices, and Grill Room or Spa on the ground floor; the Banquet Room, Library and Bible Class Rooms and such other uses as may be convenient. These two stories should be

from fourteen to eighteen feet high in the clear, so arranged that the third floor shall extend on the same level throughout the whole building, either on a level with the floor directly over the Gymnasium, or with the floor above that.

The third story and possibly a small part of the fourth will be devoted to the Educational Department and the balance of the Boys' Department; the rest of the fourth and the fifth floor to lodging rooms; the dining rooms and stewards' department will form a part of the sixth story, the balance being devoted to lodging rooms. If these arrangements are impracticable, it will be permissible to have the building seven stories high. A roof garden will cover the entire structure.

A special entrance, hallway and stairs from Arch Street must be provided for the joint use of the Boys' Department, Dormitories, Lecture Rooms and Employment Offices.

The total area of the property being about 20,530 feet the area available for the scheduled accommodations, after deducting a suitable allowance for courts, areas, walls, corridors, stairs, elevators, etc. may be estimated at not far from 12,000 to 15,000 square feet on each floor. The Committee estimates the aggregate floor area, exclusive of lodging rooms and basements called for in the schedule, as amounting to between 48,000 to 60,000 square feet, which would require between three and four entire floors between the basement and lodging rooms. It is hoped that the leeway allowed to competitors may permit of placing the dining rooms and stewards' department on the sixth floor,

and that in any case not more than seven stories will be required above the basement. If it should be necessary to place the Stewards' Department and Dining Rooms on the seventh floor, the remainder of this floor may be filled with lodging rooms, whose cost will not be included in the \$450,000 specified below. A roof garden should cover the whole structure.

The structure must be of fire-proof construction throughout, with simple and durable finish. The material and style of the exterior are left to the designer's discretion. It is desired that internally the Reception Hall should be made especially attractive, and be given as far as possible the aspect not of a hotel office or retards, but of an inviting and homelike resort.

The total sum now available for the building including heating and ventilating and lighting fixtures, but excluding gymnasium apparatus, library-stacks and private electric plant, is \$450,000. This is intended to cover the cost of the building with only one complete floor of lodging rooms, and a larger sum will be provided should two or more floors of these be built. The design should, however, represent a building with two complete floors of lodgings, and the allowance of cost be increased proportionately. Each competitor should divide the \$450,000 by the price per cubic foot at which he estimates the cost of buildings of this sort, and keep the volume of his design, exclusive of all lodgings except one complete floor, rigidly within the limits of the cubical contents thus ascertained. For this purpose, competitors not resident in Philadelphia, should inform themselves regarding the present prospective cost of the



building in that city.

Designs of excessive volume will stand no chance of the award of the first place, no matter what data the authors may furnish in their descriptive memoirs, designed to show that the building could be erected for an unusually low cost per cubic foot. The Committee will not incur the risk of being driven into heavy unforeseen expenditure by accepting a design of excessive volume figured at a low cost per cubic foot. In other words, economy of volume will be a very important element in determining the relative practical excellence of the various designs submitted. Any design which appears to be so costly to erect, that it cannot be brought within the above specified limit of \$450,000 plus a fair allowance for the erecting of long-lines, without fundamental alterations which would destroy its superiority to the other designs, will forfeit its title to the first place which its architectural character alone, apart from its cost, would seem to confer upon it.

With regard to the style of the building, in judging the designs, insistence will be upon fundamental qualities, dignity, appropriateness, good proportions, correct scale, refined details- rather than upon style-names or imitations of modern. As far as can reasonably be determined the exterior should be expressive of the purpose and function of the building, or at least in no respect inconsistent with them.

In the following detailed schedule of Requirements, the dimensions and areas given opposite the names of each of the

rooms enumerated, are intended as suggestive and not absolutely controlling. The purpose of the room can probably in many cases be equally well, or nearly as well served by a slightly smaller room; or the architect may conceive the desirability of a somewhat larger room for the same purpose. In general, the architect is advised to approximate these areas in the great majority of cases, but he will not suffer because of occasional departures from these dimensions, when such departure secures counterbalancing advantages. Where no figures are given, the dimensions are left wholly to his discretion.

SCHEDULE OF REQUIREMENTS IN DETAIL.

Basement and Sub-basement.

Mechanical Plant--mostly in sub-basement; comprising:

Boilers and heating plant.

Engine and dynamos.

Pumps and elevator machinery.

Space for filter and for storage battery.

Coal storage, 40 to 50 tons (may be under sidewalk).

General storage room.....300-450 sq. ft.

Janitors workshop.....200-300 sq. ft.

Small toilet room for men employees.

Bicycle storage room.....300-350 sq. ft.

Bathing establishment-comprising:

Swimming pool. 25 X 75 feet.

25-30 showers and needle baths (8-12 of these showers in a room by themselves).

Turkish or steam bath, 1,100-1,300 sq. ft. comprising
Small hot room.

Rubbing room.

Rest room, three or four couches.

Drying room.

Sterilizing room.

Office and supply room, near elevator or stairs.

Special toilet room for bathers.

Locker room for men; to contain 2,000 standard lockers in two tiers; of these, 100 to 200 to be grouped in from 6 to 10 private locker rooms, each with small dressing room attached.

Four bowling alleys, unless on an upper floor.

Stairs, including a special gymnasium flight to locker room.

Elevators, dumb waiters, utility closets, etc.

First or Ground Floor.

Reception Hall.....1,100-1,300 sq. ft.

Assistant Secretary's Office, open and with counter front for direct contact with public; to control as much of this whole floor as possible (350-450 sq. ft.).

Secretary's Office (300-400 sq. ft.). directly accessible from Reception Hall or corridor, and connected with Assistant Secretary's Office. Provide coat closet with washstand.

Treasurer's Office, with space for bookkeepers, and vault, 200-350 sq. ft.

Social or Game room, opening widely into Reception Hall; large enough for 3 or 4 billiard or pool tables, 1000 to 1500 sq. ft.

Coat Room, 300-400 sq. ft.

Grill Room or Spa for quick lunch, with grill and a few tables (or it may be put in front of basement if well lighted; about 500 sq. ft.)

Special Entrance and Corridor for Boys' Department and Employment Bureau, to be used also by lodgers when rest of building is closed at night. Stairs should lead directly up to Boys' Reception Room.

Mens and Boys Physical Department.

Note-If the gymnasium be made 24 feet high in the clear, with a mezzanine or story above it from 10 to 12 ft. high in the clear; then, if the remainder of ground story be 18 feet high and the second story 16 to 18 feet high in the clear, the third floor will be continuous on one level throughout, and the second floor will have a 6 foot break or vice at the line of the gymnasium wall. This will be a perfectly permissible arrangement. So also any variation of



as (e.g.) gymnasium 25 feet high, mezzanine above it 9 feet high, remainder of first story 19 feet high, second story 18 feet high (all in the clear), and third floor continuous over whole building. Or, on the other hand, the gymnasium may be made 30 feet high together, giving a continuous level at the third floor, which would be only the second floor over the gymnasium, the second floor of the remainder stopping at the gymnasium wall. This explanation is made so that competitors may not consider themselves absolutely bound by the nomenclature of the floors in this schedule, which for the purposes of convenience, supposes the first of these various arrangements to be adopted but does not impose this. The floor above the gymnasium will be called for convenience the Mezzanine.

Men's Gymnasium, approximately 6,000 sq. ft. not less than 24 feet high in the clear, with running track and visitors' gallery opening into it and controlling it.

Physical Directors Office, with small dressing closets
250-375 sq. ft.

Assistant Director's Office, connecting with it or immediately above it; may be smaller.

Social Room, 400-500 sq. ft.

Stores and Repairs, 200-350 sq. ft. (or may be on Mezzanine floor).

Sparring, Fencing and special exercises, 600-1,000 sq. ft.
(or may go on to Mezzanine floor).

(The last named five rooms may be arranged in two stories, the upper one opening off the running track level, with convenient special stairs.)

Boy's Gymnasium, 2,000-2,200 sq. ft., not under 24 ft. high, to open broadly into Mens' Gymnasium so that the entire floor of both can be used as one on occasion.

Two Hand-ball Courts, 1,000-1,100 sq. ft. 18 feet high (as nearly as possible 24 X 42 feet, though slightly smaller dimensions are admissible.)

Second Floor.

Library and Reading Room.....1,800-2,500 sq. ft.

Banquet and Lecture Room.....3,200-3,600 sq. ft.

This room is to be provided, if possible, with a gallery for visitors. The area allowed including a Serving Room, which should have dumb waiter connection with Steward's department above.

Four Bible Class Rooms.....1,200-1,600 sq. ft.

These rooms in one or two suites.

The following may be either on second or on mezzanine:

Employment Bureau, 500-600 sq. ft. (large waiting room; smaller office). To be made accessible from side entrance.

Committee Room.....500-600 sq. ft.

Three Board Offices; a large, medium and small office, the largest of 400 sq. ft.

The Board and Committee Rooms may, indeed, go onto any floor of the building. The Board Rooms should look out upon Arch Street.

On Mezzanine Floor, or on Floor above.

Boys' Locker Room, 600 lockers in 2 tiers.

Boys' Showers, 10-15 showers, adjoining the lockers with an open drying space or room. (If not practicable otherwise, Locker Room and Showers may be put into Basement.)

Boys' Toilet Room.

Boys' Reception Room, 600-800 sq. ft. (The boys' stairs from Arch Street must lead quite directly to the entrance to this room.)

Boys' Secretary's Office, opening onto Reception Room.....180-225 sq. ft.

Boys' Library and Reading Room 400-600 sq. ft.

Boys' Game Room.....400-600 sq. ft.

Boys' Coat Room, 250-300 sq. ft. close to, or connecting with, Reception Room.

Boys' Office and Supply Room.

The last six rooms must be together on one floor, controlled by the Secretary's Office; if on a different floor from Locker and Shower Room, there must be special stairs to these, under Secretary's control.

It is on many accounts desirable, though not absolutely imperative, to group the Boys' Department rooms wholly or in

great part in the extension or strip of land on the west of the main property. This will isolate the boys' work from the main work in the building, which is the object aimed at by the Committee.

On Mezzanine Floor.

General public toilet room.

Barber Shop, 3 chairs; also 4 tub-bathrooms connecting with it.

Storage and Repair Room (if not on gymnasium, or running track floor, as already mentioned).

Four Bowling Alleys (if not in basement).

Two workshops for Educational Department—for wood-work and iron work (if not provided for elsewhere) each about 500 sq. ft.

Third Floor (or partly on floor above if necessary).

Educational Department.

Commercial Studies (grouped together, but not necessarily connecting).

One Lecture Room.....1,200 sq. ft.

Four Class Rooms, each.....500-600 sq. ft.

Three Class Rooms, each.....300-600 sq. ft.

Civil Service School, grouped together.

Three Class Rooms, each.....300-600 sq. ft.

College Preparation.

One Class Room.....375 sq. ft.

Two Class Rooms, each.....600-750 sq. ft.

Three Class Rooms, each250-400 sq. ft.

Technical Studies.

One Drawing Room; Skylight if possible, 650-750
sq. ft. (or may be on top floor).

Three Drawing Rooms, 900-1,000 sq. ft. each.

Two Shops, 500 sq. ft. each (or on mezanine floor
already mentioned).

One General Class Room.....600-750 sq. ft.

Directors Offices- public and private; 2
rooms, with supply room..400-600 sq. ft.

Boy's Department, not already provided for;

Camera Club with dark room 250-350 sq. ft.

Three Class Rooms each.....300-450 sq. ft.

Lecture Room, 700-800 sq. ft. (or one of
floors below).

Upper Floors in General.

Dining Room to seat 150.

Small Dining Room to seat 50

Storeroom Department:

Kitchen and dependences, ample to cook
for 200-250 persons.

Servants Dining Room, 225-300 sq. ft.

Cold Storage, pantries, china-closets, serving
room, store rooms, etc.

Dumb-waiter connection both with Banquet Room.

Grill Room and with Basement.

Servants' Toilet Room (for women servants).

Lodging Rooms:

(Only one of these included under the \$450,000 limit).

Two complete floors or their equivalents of lodging rooms averaging from 150 to 180 sq. ft. each, with a few larger rooms on each floor capable of being rented with the smaller rooms on either side in suites of two or three rooms. There is to be no plumbing in any of these rooms; all rooms shall have an ample closet. There should be two sufficient toilets on each floor, also a bath room with four to eight showers and plenty of hand basins. No room should depend upon an enclosed court or shaft for light and air, unless connected with a room having an outlook upon the street or upon "all out-doors." Provide on one floor one or two sunny rooms with connecting tub-bath-room, to serve as an infirmary.

The lodgers' floors must be accessible from Arch Street by the Boys' Entrance and stairs when the rest of the building is closed; also, of course, by the main stairs and elevators.

A lodging or suite of 4 to 5 rooms for janitor and wife must be provided; also one or two ample trunk rooms; also a linen closet on each lodging floor and slop sinks and broom closets.

Roof Garden.

A part or the whole of the roof should be arranged for a roof garden, either by permanent architectural features, or by means of light or movable iron or wooden construction. Trellises

and outside.

The cost limit should include the equipment for heating and ventilation. Mechanical ventilators should be provided for the Reception Hall, Gymnasium, Lockers, Baths, Kitchen, Dining Room, Banquet Hall, and the larger Class and Club Rooms. The descriptive report should describe in detail the system of heating and ventilation contemplated, with an estimate as to the cost of the entire equipment therefor.

Stairways, public and for service, elevators, closets, slop-sinks and other necessities and conveniences of the building, must be provided at the designer's discretion. Provide space for two or three elevators; if three, one to serve the rear portion of the building, the other two the front.

(Signed) John W. Pepper,

Chairman.

Arthur E. Newbold.

William M. Longstrech.

William R. Nicholson.

Joseph M. Steele,

Committee

March 28, 1906.

Revised April 18 and May 17, 1906.

A. D. P. Hamlin.

Professional Advisor.

List of Drawings Submitted.

Sheet No. 1.

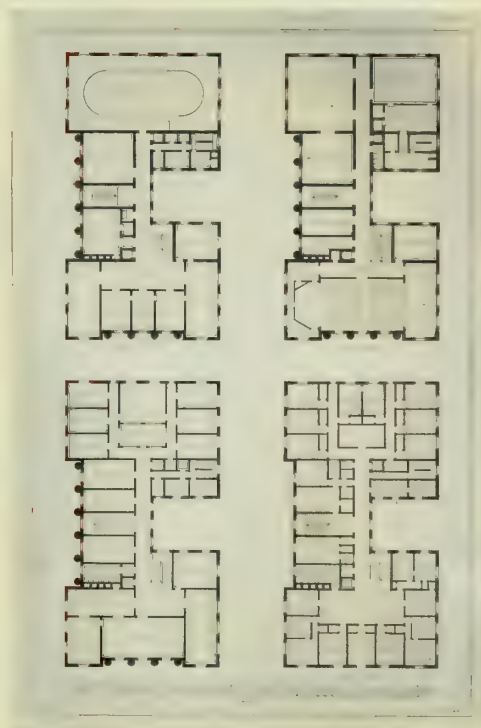
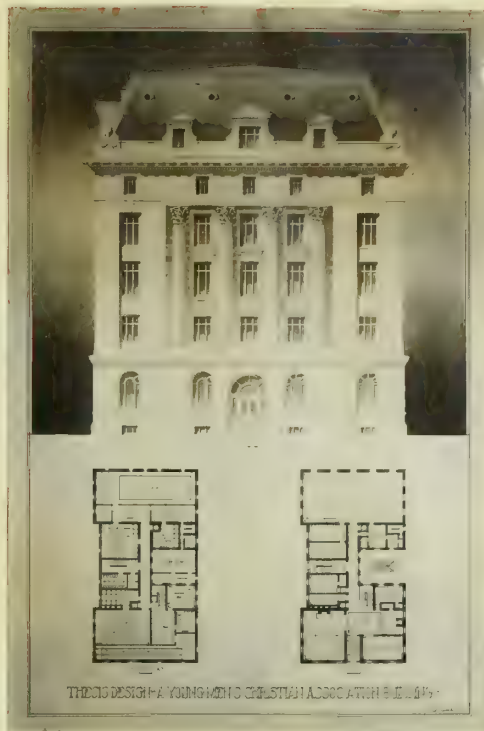
1. Front Elevation.
2. First Floor Plan.
3. Basement Plan.

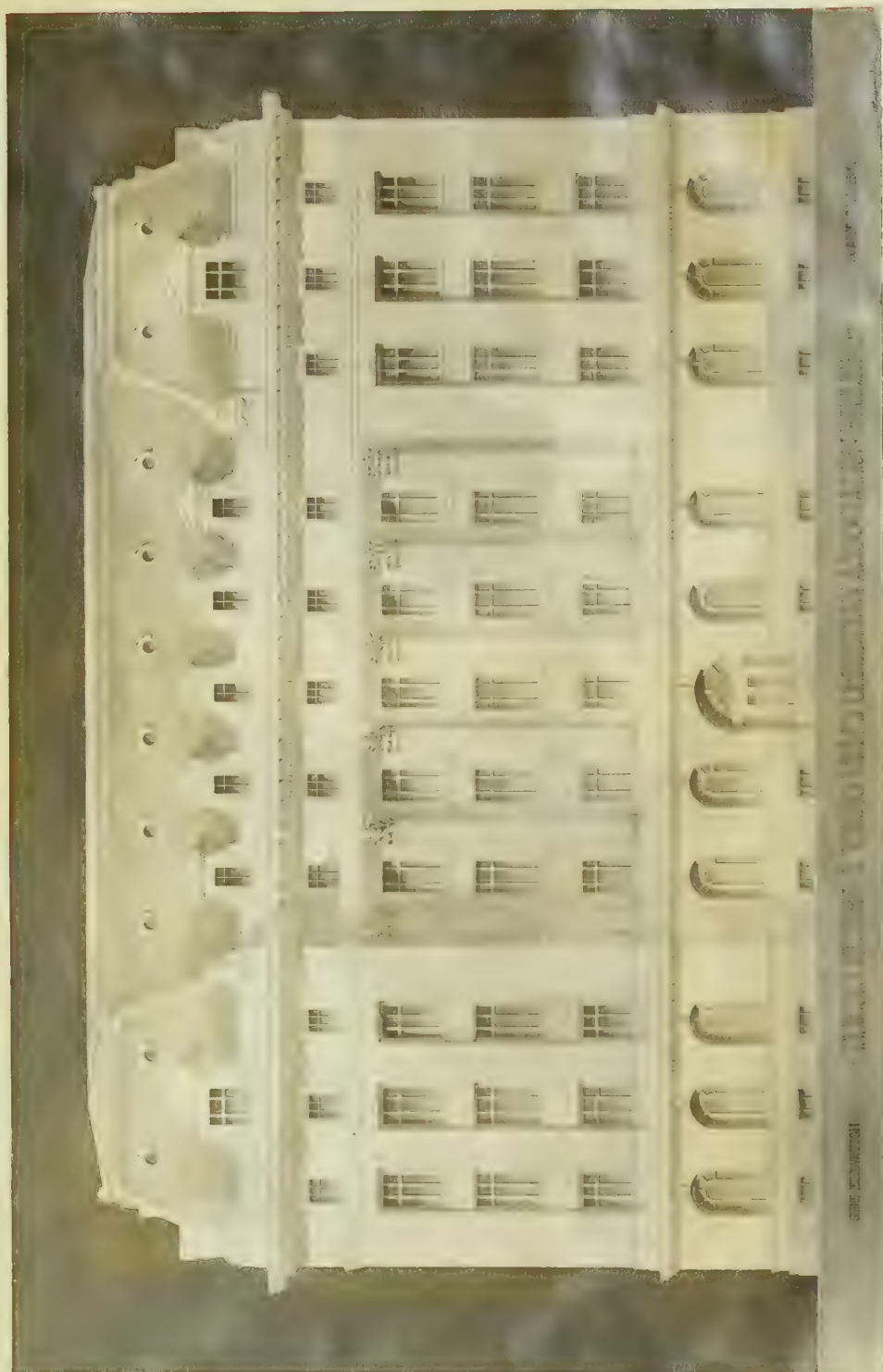
Sheet No. 2.

1. Side Elevation?

Sheet No. 3.

1. Mezzanine Floor Plan.
2. Second Floor Plan.
3. Third Floor Plan.
4. Fourth Floor Plan.





List of Floors and Rooms Sizes.
for the Thesis Submitted.

First Floor.

Vestibule	10'-0" X 20'-0"
Lobby	20 X 30
Reception Room	34 X 42
Reading Room	20 X 34
General Office	17 X 20
Secretary's Office	14 X 23
Coat Room	9 X 30
Ladies Parlor	15 X 24
Special Exercise Rooms (2)	14 X 30
Physical Directors Office	14 X 19
Examination Room	9 X 11
Gymnasium	42 X 33

Basement.

Lobby	19 X 28
General Toilet	16 X 18
Barber Shop	18'-6" X 23'-0"
Bowling Alleys (2)	12'-6" X 83'-0"
Young Men's Locker Room	28 X 46
Young Men's Showers and Toilet	13 X 30
Business Locker Room and Showers	28 X 30
Boys Locker Room	14 X 37
Boys Showers and Toilet	22 X 22
Space for Swimming Pool	27 X 32

Pool	20 X 60
Bicycle Storage	12 X 21
Corridor	14 X 31
Retiring Room	14 X 14
Janitors Room	9 X 10
Boiler Room	19 X 36
Coal Storage	8 X 36

Mezzanine Floor.

Lobby	15'-0" X 46'-0"
Billiard Room	17'-6" X 42'-0"
Headquarters Room	17'-6" X 42'-0"
Library	19'-6" X 25'-6"
Young Men's Club Room	22'-0" X 28'-0"
Bible Study Class Room No. 1	16'-0" X 22'-0"
Bible Study Class Room No. 2	16'-6" X 22'-0"
Bible Study Class Room No. 3	19'-0" X 22'-6"
Religious Directors Office	12'-0" X 22'-0"
Corridor	8'--0 Wide
Room for Female Help	9'-0" X 12'-6"
Room for Female Help	9'-0" X 10'-6"

Second Floor.

Auditorium	29'-0" X 46'-0"
Auditorium Annex	17'-0" X 46'-0"
Directors Room	19'-6" X 23'-6"
Committee Room	10'-0" X 17'-0"
City Pastor's Conference Room	14'-3" X 28'-0"

Boys Reading Room	28'-0" X 29'-0"
Boys reception and Game Room	36'-0" X 41'-6"
Boys Toilet	6'-0" X 12'-6"
Dining Room	26'-0" X 36'-0"
Serving Room	14'-9" X 22'-0"
Kitchen	9'-0" X 23'-0"
General Toilet	10'-0" X 23'-0"
Corridor	8' Wide.

Third Floor.

Educational Department.

Hall	14'-6" X 27'-0"
Lecture Room	22'-3" X 45'-6"
Library	18'-0" X 26'-0"
Director's Office and Supplies	14'-9" X 37'-0"
Drafting Room	17'-0" X 41'-0"
Class Room No. 1.	12'-6" X 24'-0"
Class Room No. 2.	14'-9" X 28'-0"
Class Room No. 3.	12'-0" X 28'-0"
Class Room No. 4.	16'-0" X 25'-0"
Class Room No. 5.	13'-3" X 22'-0"
Class Room No. 6.	13'-3" X 22'-0"
Class Room No. 7.	15'-3" X 22'-0"
Class Room No. 8.	22'-0" X 25'-0"
Class Room No. 9.	13'-3" X 22'-0"
Class Room No. 10.	13'-3" X 22'-0"
Class Room No. 11.	13'-3" X 22'-0"

Storage for Supplies	12'-0" X 25'-0"
Toilet	10'-0" X 20'-0"
Room for Male Help	9'-0" X 13'-0"
Room for Male Help	9'-0" X 15'-0"
Corridor	8' Wide.

Fourth Floor.

Lodging Rooms.

Hall.	18'-0" X 47'
Rooms No. 1 to No. 9	13'-6" X 17'-0"
Room No. 9	14'-0" X 17'-0"
Room No. 10.	14'-0" X 24'-0"
Room No. 11.	15'-0" X 24'-0"
Room No. 12.	14'-0" X 17'-0"
Room No. 13.	12'-0" X 12'-0"
Room No. 14.	14'-0" X 17'-0"
Room No. 15.	13'-0" X 17'-6"
Room No. 16.	15'-0" X 17'-6"
Room No. 17.	15'-0" X 17'-0"
Room No. 18.	14'-0" X 17'-0"
Room No. 19.	12'-0" X 12'-0"
Room No. 20.	14'-0" X 17'-0"
Room No. 21.	12'-0" X 17'-0"
Room No. 22.	12'-0" X 17'-0"

Toilet and Showers	10'-0" X 24'-0"
Toilet	9'-0" X 20'-0"
Showers	9'-0" X 15'-0"
Trunk Room	12'-0" X 25'-0"
Corridor	8' Wide.

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Architecture Plate 57.

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Philadelphia, Pa.,

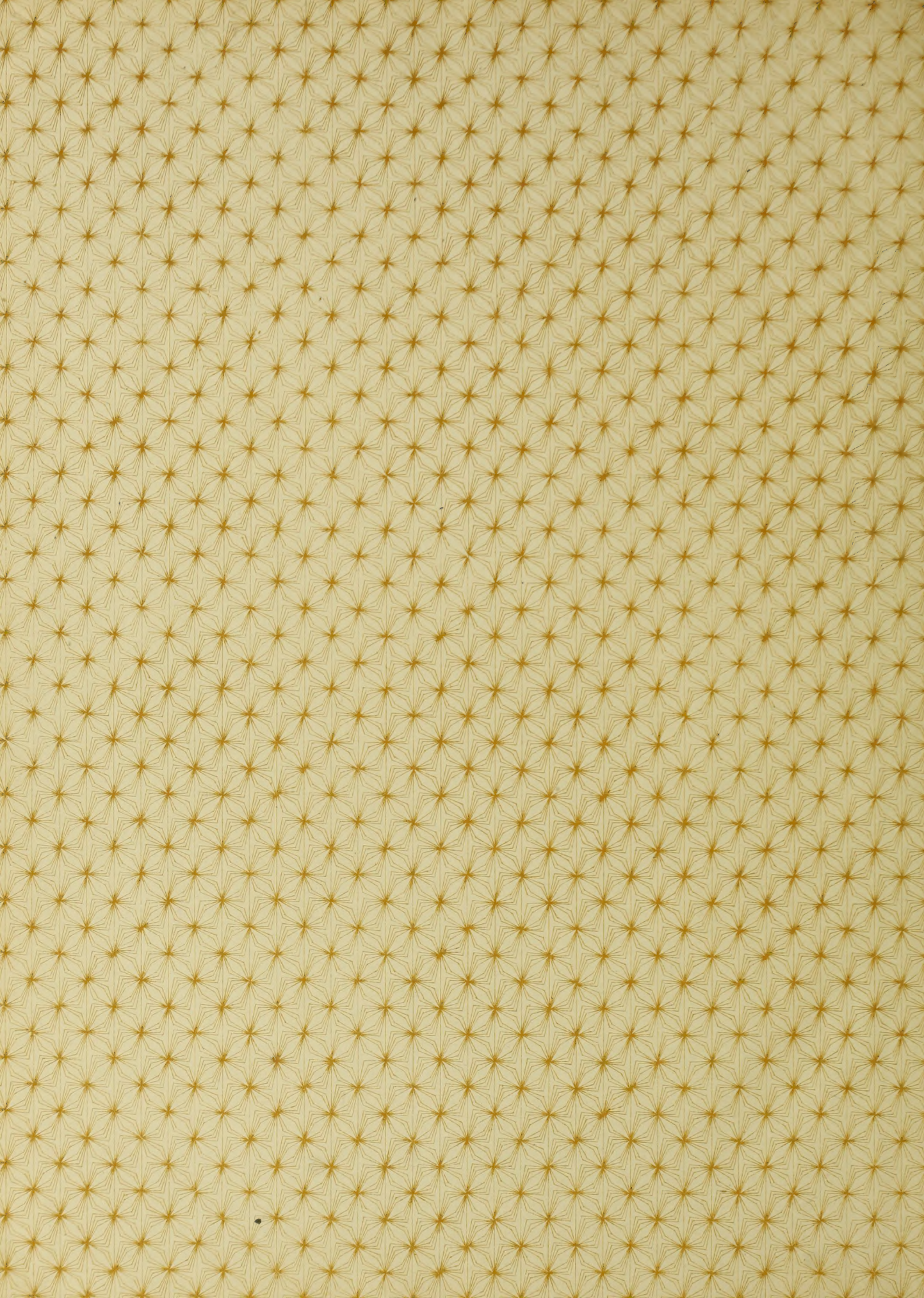
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Winning Design by

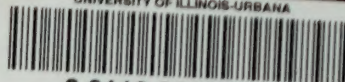
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Schedule for Competition page XXXI.





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